



UNITED STATES
NUCLEAR REGULATORY COMMISSION
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May 20, 2014

MEMORANDUM TO: Brian Thomas, Acting Director
Division of Engineering
Office of Nuclear Regulatory Research

FROM: Thomas H. Boyce, Chief **/RA/**
Regulatory Guidance and Generic Issues Branch
Division of Engineering
Office of Nuclear Regulatory Research

SUBJECT: RESULTS OF PERIODIC REVIEW OF REGULATORY GUIDE
(RG) 1.89

This memorandum documents the US Nuclear Regulatory Commission (NRC) periodic review of Revision 1 of Regulatory Guide (RG) 1.89, "Environmental Qualification of Certain Electric Equipment Important to Safety for Nuclear Power Plants," dated June 1984. As discussed in Management Directive 6.6, "Regulatory Guides," the NRC staff reviews RGs approximately every 5 years to ensure that the RGs continue to provide useful guidance. Documentation of the NRC staff review is enclosed.

Based on the results of the periodic review, the NRC staff has determined that use of the current version of RG 1.89 will have no known impact on internal or external stakeholders at this time. However, a revision to RG 1.89 should be undertaken within the next 12 to 18 months to minimize the potential impact on future licensing applications and reviews.

As detailed in the attached periodic review, the RG uses source term data from TID-14844 dated 1962. More current guidance exists in NUREG-1465 and a draft report developed by a contractor. This updated source data as well as current computer codes and methods should be evaluated for incorporation as options into the RG.

Additionally, the RG endorses, with some exceptions and clarifications, IEEE Std. 323-1975. An update to RG 1.89 should incorporate new information from the normative references of the most current version of this IEEE standard.

Enclosure: Periodic Review of RG 1.89

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(RG) 1.9

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